

That which is claimed, is:

Sub 112 1st 1. Tuning apparatus for a stringed musical instrument comprising a body and a neck extending outwardly from said body, a plurality of strings extending from said body to said neck, a tailpiece securing one end of each of the strings, means for forming a first critical point for each of said strings on said neck, and means for forming a second critical point for each of said strings on said body, wherein the improvement comprises that said means for forming said second critical point comprises a fulcrum tremolo, said fulcrum tremolo includes a base plate, means for raising and adjusting one of said strings to a pitched string condition from an untensioned condition, said means for raising and adjusting one of said strings comprising a bridge element forming (a second critical point) an elongated member located on the opposite side of said bridge element from the first critical point and disposed in spaced relation to said bridge element over which (the associated string) extends, means for varying the spacing between said first and second critical points for changing the harmonic tuning, and said base plate being pivotally mounted about an axis extending transversely of said strings for changing the pitch of all said strings at one time as said base plate is pivoted.

2. Tuning apparatus as set forth in claim 1, wherein said elongated member has a first end closer to said bridge element and a second end more remote from said bridge element, said elongated member forming a passageway extending from the first end thereof toward the second end, one of said associated strings arranged to extend through said passageway and to be secured to said means for raising and adjusting one of said strings at a point spaced from the first end of said

56

08953002-101697

elongated member, wherein said elongated member is pivotally displaceable between a first limiting position and a second limiting position and the first end of said elongated member is in spaced relation from the bridge element in and between said first and second limiting positions.

3. Tuning apparatus as set forth in claim 2, comprising an elongated displacement means located in said means for raising and adjusting one of said strings for contacting said elongated member and pivotally displacing said elongated member between said first and second limiting means.

4. Tuning apparatus as set forth in claim 2, wherein said elongated member has a surface extending in the direction between the first and second ends thereof, and said elongated member displacement means comprises an elongated bolt-like member adjustably mounted in separate means and arranged to contact said surface for pivoting said lever member between the first and second limiting positions.

5. Tuning apparatus as set forth in claim 1, wherein said means for varying the spacing between said first and second critical points comprises a member for securing each of said means for raising and adjusting one of said strings to said base plate for positioning said means for raising and adjusting one of said string relative to said first critical point.

6. A tremolo and tuning device for use on a stringed musical instrument comprising a body, a neck extending from said body, and an end on said neck spaced apart from said body, a plurality of strings secured at said end and on a tailpiece on said body, each of said strings has a first critical point on said neck and a

08953002-101697

second critical point on said body, said tailpiece and said second critical points being pivotal together about an axis said device comprises a bridge-tailpiece assembly pivotally mounted on said body for simultaneously changing the pitch of all strings, said assembly including means for individually moving the second critical point of each of said strings for changing the distance between the first and second critical points and changing the harmonic tuning thereof, and means for macro-tuning each said string individually by varying the tension without changing the distance between the first and second critical points, said means for macro-tuning being movable with said tremolo means.

*Adm*  
*C2*

08953002-101697